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APPLICATION NO	O.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,087		01/30/2006	Chad Munro	8932.1091-999	7522
20583	7590	07/27/2006		EXAMINER	
JONES D			WOODALL, NICHOLAS W		
222 EAST 41ST ST NEW YORK, NY 10017				ART UNIT	PAPER NUMBER
	·			3733	
				DATE MAILED: 07/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commence	10/530,087	MUNRO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Nicholas Woodall	3733					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
•	s action is non-final.						
•							
, <u> </u>	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-14 is/are pending in the application							
4a) Of the above claim(s) is/are withdra	wn from consideration.						
5) Claim(s) is/are allowed.		1					
6)⊠ Claim(s) <u>1-4</u> is/are rejected.							
7)⊠ Claim(s) <u>5-14</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examino	er.						
10)⊠ The drawing(s) filed on <u>01 April 2005</u> is/are: a) accepted or b) objected to □	by the Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is ob	ected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
 Notice of Draftsperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>06/30/2005</u>. 		Patent Application (PTO-152)					

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DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "2" has been used to designate both the distal tip of the medullary pin and is shown to point to a feature in Figure 2 that is not disclosed in the specification.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: reference number 18' is not mentioned in the specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the

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patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- The abstract of the disclosure is objected to because it uses a phase that implies,
- e.g. "The invention relates". The abstract is also written in claim form instead of a narrative form. Correction is required. See MPEP § 608.01(b).

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Claim Objections

6. Claims 5-14 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 5-14 have not been further treated on the merits.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 2-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 9. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte*

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Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 2 recites the broad recitation "an angle β of between 0 degrees and +100 degrees", and the claim also recites "and preferably of between +40 degrees and +50 degrees" which is the narrower statement of the range/limitation.

- A broad range or limitation together with a narrow range or limitation that falls 10. within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 3 recites the broad recitation "an angle β of between 0 degrees and -100 degrees, and the claim also recites "preferably of between -40 degrees and -50 degrees" which is the narrower statement of the range/limitation.
- 11. Claim 2 states, "if projected onto a cross-sectional area orthogonal to the longitudinal axis of the medullary pin, lies on a radius, which encloses in this cross-sectional area an angle β of between 0 degrees and +100 degrees and preferably

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of between +40 degrees and +50 degrees with the projection of the borehole axis of the proximal transverse borehole". The examiner in unclear if the above portion of claim 2 is limitations for the bone plate. For examining purposes, the examiner is going to treat the above portion of claim 2 as functional language and not a limiting characteristic of the bone plate.

12. Claim 3 states, "if projected onto a cross-sectional area orthogonal to the longitudinal axis of the medullary pin, lies on a radius, which encloses in this cross-sectional area an angle β of between 0 degrees and -100 degrees and preferably of between -40 degrees and -50 degrees with the projection of the borehole axis of the proximal transverse borehole". The examiner in unclear if the above portion of claim 3 is limitations for the bone plate. For examining purposes, the examiner is going to treat the above portion of claim 3 as functional language and not a limiting characteristic of the bone plate.

Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Penniq (U.S. 5,356,410) in view of Shuler (U.S. 5,562,667).

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Pennig discloses a bone fixation device that includes an intramedullary pin with a longitudinal axis, which has a distal tip, a proximal end, and a bone plate (4). The bone plate is located at the proximal end of the medullary pin (claim 1). Regarding claims 2 and 3. Pennig discloses the bone plate (4) has an angled tab that extends distally along the bone. Penning fails to disclose that the intramedullary pin includes transverse boreholes in the proximal end of the pin (claim 1) and in the distal end of the pin (claim 4). Shuler teaches an intramedullary pin that has transverse boreholes (64, 66, 70, and 72) in the proximal end (68) of the pin (column 13 lines 48-53) and in the distal end of the pin (column 13 lines 58-61) in order to receive interlocking screws (column 7 lines 55 and 56). It would have been obvious to one having ordinary skill in the art at the time of the invention to manufacture the intramedullary pin of Pennig with the transverse boreholes of Shuler in order to receive interlocking screws. Regarding claim 1, Pennig discloses the invention as claimed except for the bone plate ending proximally above the transverse borehole in the proximal end of the pin. It would have been an obvious matter of design choice to change the size of the bone plate to have it end proximally above the transverse borehole in the proximal end of the pin, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).

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Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-82 for cited references the examiner felt were relevant to the application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Woodall whose telephone number is 571-272-5204. The examiner can normally be reached on Monday to Friday 8:00 to 5:30 EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NWW

EDUARDO/O. ROBERT OPERVISORY PATENT EXAMINER